



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Mark T. Fisher et al.)	Examiner:	SNEDDEN, SHERIDAN
)		
Serial No.:	09/808,774)	Art Unit:	1653
)		
Filing Date:	03/15/2001)		
)		
Title:	CHAPERONIN AND)		
	OSMOLYTE PROTEIN)		
	FOLDING AND RELATED)		
	SCREENING METHODS)		

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. § 1.56 and § 1.97(c), the references listed below and on the attached Form PTO/SB/08A (Substitute for Form 1449A-B/PTO) are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. Copies of the cited documents are enclosed.

Applicant respectfully submits that a bona fide attempt to comply with § 1.98 was made prior to the Final Office Action in the Information Disclosure Statement dated June 25, 2003, but the references were either lost by the Patent Office or inadvertently omitted. As such, Applicant respectfully requests that pursuant to § 1.97(f), the Information Disclosure Statement be accepted.

Submission of these references is not an admission that the references constitute prior art.

Certificate of Mailing Under 37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: November 24, 2003
Signature: Lora Gwiley
Printed Name: Lora Gwiley

The Director is hereby authorized to charge any additional amount required, or credit any overpayment, to Deposit Account No. 19-4409.



Serial No.: 09/808,774
Docket No.: 70009590-0020

U.S. PATENTS

Patent No.

Inventor(s)

Issue Date

None.

FOREIGN PATENTS

Country

Patent No./Publication No.

Publication Date

None.

OTHER REFERENCES

RODERICH BRANDSCH, et al., GroE Dependence on Refolding and Holoenzyme Formation off 6-Hydroxy-D-NICOTINE Oxidase, <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY</i> , OCT. 15, 1992, VOL. 267, No. 29, pp. 20844-20849, USA
GEORGE W. FARR, et al., Multivalent Binding of Nonnative Substrate Proteins by the Chaperonin GroEL, <i>Cell</i> , March 3, 2000, Vol. 100, pp. 561-573, USA
MARK T. FISHER, On the Assembly of Dodecameric Glutamine Synthetase from Stable Chaperonin Complexes, <i>The Journal of Biological Chemistry</i> , July 5, 1993, Vol. 268, No. 19, pp. 13777-13779, USA
MARK T. FISHER, Promotion of the in Vitro Renaturation of Dodecameric Glutamine Synthetase from <i>Escherichia coli</i> in the Presence of GroEL (Chaperonin-60) and ATP, <i>Biochemistry</i> , April 28, 1992, pp. 3955-3963, USA
BORIS M. GOROVITS, et al., Rhodanese folding is controlled by the partitioning of its folding intermediates, 1998, <i>Biochimica et Biophysica Acta</i> , 1382 120-128
SANGITA PHADTARE, et al., Refolding and release of tubulins by a functional immobilised groEL column, 1994, <i>Biochimica et Biophysica Acta</i> , 1208 189-192
KIRK E. SMITH, et al., Interactions between the GroE Chaperonins and Rhodanese, <i>The Journal of Biological Chemistry</i> , Sept. 15, 1995, Vol. 270, No. 37, pp. 21517-21523, USA
JIU-LI SONG, et al., Natural Osmolyte Trimethylamine N-Oxide Corrects Assembly Defects of Mutant Branched-chain α -Ketoacid Decarboxylase in Maple Syrup Urine Disease, <i>The Journal of Biological Chemistry</i> , October 26, 2001, Vol. 276, No. 43, pp. 40241-40246, USA
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PAUL A. VOZIYAN, et al., Polyols Induce ATP-Independent Folding of GroEL-Bound Bacterial Glutamine Synthetase, <i>Archives of Biochemistry and Biophysics</i> , January 15, 2002, Vol. 397, No. 2, pp. 293-297, USA

PAUL A. VOZIYAN, et al., Refolding a Glutamine Synthetase Truncation Mutant <i>In Vitro</i> : Identifying Superior Conditions Using a Combination of Chaperonins and Osmolytes, <i>Journal of Pharmaceutical Sciences</i> , August 2000, Vol. 89, No. 8, pp. 1036-1045, USA
AIJUN WANG, et al., A Naturally Occurring Protective System in Urea-Rich Cells: Mechanism of Osmolyte Protection of Proteins against Urea Denaturation, <i>Biochemistry</i> , 1997, 36m 9101-9108, USA
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WANG ZHI, et al., Renaturation of citrate synthase: Influence of denaturant and folding assistants, 1992, <i>Protein Science</i> , 1, 522-529, USA

Applicants respectfully request that these references be made of record in the above-identified application and considered by the Examiner during prosecution of the application.

It is respectfully submitted that the present invention as claimed is patentable over the listed references.

This information disclosure statement is being filed on or before payment of the issue fee.

Enclosed is a check in the amount of \$180.00 to cover the fee set forth in 37 C.F.R. § 1.17(p).

Acknowledgment of receipt is respectfully requested.

Respectfully submitted,

By: 

Lana M. Knedlik, Reg. No. 42,748
STINSON MORRISON HECKER LLP
1201 Walnut Street, Suite 2800
Kansas City, MO 64106-2150
Telephone: (816) 842-8600
Facsimile: (816) 691-3495
Attorney for Applicants



Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number:	09/808,774
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Filing Date:	03/15/2001
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First Named Inventor:	Mark T. Fisher
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Group Art Unit:	1653
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Examiner Name:	SNEDDEN, SHERIDAN
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Attorney Docket Number: 70009590-0020

Sheet 1 of 3

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for Form 1449B/PTO (Modified)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 3

Complete if Known

Application Number:	09/808,774
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First Named Inventor:	Mark T. Fisher
Group Art Unit:	1653
Examiner Name:	SNEDDEN, SHERIDAN
Attorney Docket Number:	70009590-0020

OTHER REFERENCES – NON PATENT LITERATURE DOCUMENTS AND INFORMATION

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		RODERICH BRANDSCH, et al., GroE Dependence on Refolding and Holoenzyme Formation off 6-Hydroxy-D-NICOTINE Oxidase, <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY</i> , OCT. 15, 1992, VOL. 267, No. 29, PP. 20844-20849, USA	
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Substitute for Form 1449B/PTO (Modified)

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